## Congress of the United States Washington, DC 20515

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April 30, 2019

The Honorable Ajit Pai Chairman Federal Communications Commission 445 12<sup>th</sup> St., SW Washington, DC 20554

RE: Protecting Incumbents from harmful interference in the 6 GHz band, ET Docket No. 18-295

#### Dear Chairman Pai:

As the Federal Communications Commission (FCC) solicits comments on its Notice of Proposed Rulemaking which would allow unlicensed spectrum sharing in the 6 GHz band, we urge you to ensure that incumbent license holders, especially those critical infrastructure owners and operators which use the band for mission-critical communications, are protected from the harmful interference that could be caused by unlicensed spectrum sharing. Over the past few months, we have heard from our electric and water utilities about the proposed rulemaking and the detrimental impact interference from new unlicensed users could have on the provisioning of reliable utility services. Given the importance of utility services for our economic and national security, we encourage the Commission to carefully craft technical specifications to ensure the adequate protection of utilities and other critical infrastructure owners and operators' communications networks from harmful interference.

Electric and water utilities use the 6GHz band for their mission critical communications networks, including routine reliability, emergency response, storm restoration, and general situation awareness. The 6GHz band provides utilities and other critical infrastructure industries (CII) with high-speed, long distance wireless communications required for these essential services. The 6 GHz band is uniquely suited to deliver the long-distance, low latency communications utilities and other critical infrastructure industries need. Interference on a utility's communication network reduces their ability to respond to problems or abnormalities within their service territory, reducing their situational awareness and potentially compromising utility reliability. Interference to these mission critical communications systems would pose an unacceptable risk.

We are well aware that our nation's need for spectrum is growing as the number of wireless networks and devices proliferate, and we appreciate the Commission's continued efforts to ensure the efficient and effective use of spectrum. Commercial wireless users have multiple spectrum options for their service, while, utilities and other users in the 6 GHz band will have few if any other bands should they be forced to relocate. We urge the FCC to carefully consider how best to implement an automated frequency coordination (AFC) system to ensure that it performs effectively and protects important incumbent operations.

Given the importance of essential energy and water services to our nation's wellbeing, we encourage you to consider how this proposal could impact the critical infrastructure industries who rely on the 6 GHz band for their vital communications neatwork's and ensure adequate protection from harmful interference.

Jim Costa Member of Congress Josh Harder Member of Congress Adam B. Schiff Member of Congress TJ Cox Member of Congress Nanette Barragán Member of Congress Lucille Roybal-Allard Member of Congress

Juan Vargas

Member of Congress

Sincerely,

Ken Calvert Member of Congress Raul Ruiz, M.D. Member of Congress Doug LaMalfa Member of Congress Harley Rouda Member of Congress Grace Napolitano Member of Congress Judy Chu Member of Congress



May 23, 2019

The Honorable Lucille Roybal-Allard U.S. House of Representatives 2083 Rayburn House Office Building Washington, D.C. 20515

#### Dear Congresswoman Roybal-Allard:

Thank you for your letter concerning the Commission's proposed rulemaking related to unlicensed use of the 5.925-7.125 GHz (6 GHz) band. I agree that protecting incumbent users from interference is an important consideration. That is why the FCC suggested allowing unlicensed devices to operate in the 6 GHz band only in locations and in frequencies where they would not cause harmful interference to incumbents.

As an initial matter, unlicensed operations relying on Wi-Fi and other technical standards have become highly popular among consumers seeking to connect wirelessly to the Internet using countless devices—and have become a critical component of the mobile wireless ecosystem. The Commission's October 2018 Notice of Proposed Rulemaking proposed allowing unlicensed use of the 6 GHz band while ensuring that the licensed services operating in the spectrum would continue to thrive. Expanding use of this spectrum will advance the Commission's efforts to make broadband connectivity available to all Americans, especially those in rural and underserved areas.

In order to minimize any potential harmful interference, we proposed rules for two types of unlicensed devices tailored to protect incumbent services that operate in distinct parts of the 6 GHz band. In the 5.925-6.425 GHz and 6.525-6.875 GHz sub-bands, unlicensed devices would only be allowed to transmit under the control of an automated frequency control (AFC) system. These frequencies are heavily used by point-to-point microwave links (such as oil rigs and utilities) and some fixed-satellite systems. The AFC system would identify frequencies on which unlicensed devices could operate without causing harmful interference to fixed point-to-point microwave receivers.

### Page 2—The Honorable Lucille Roybal-Allard

I appreciate your sharing your views on this proceeding and can assure you that as we examine the record, we will take those views into account. Please let me know if I can be of further assistance.



May 23, 2019

The Honorable Adam B. Schiff U.S. House of Representatives 2269 Rayburn House Office Building Washington, D.C. 20515

#### Dear Congressman Schiff:

Thank you for your letter concerning the Commission's proposed rulemaking related to unlicensed use of the 5.925-7.125 GHz (6 GHz) band. I agree that protecting incumbent users from interference is an important consideration. That is why the FCC suggested allowing unlicensed devices to operate in the 6 GHz band only in locations and in frequencies where they would not cause harmful interference to incumbents.

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### Page 2—The Honorable Adam B. Schiff

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May 23, 2019

The Honorable Doug LaMalfa U.S. House of Representatives 322 Cannon House Office Building Washington, D.C. 20515

### Dear Congressman LaMalfa:

Thank you for your letter concerning the Commission's proposed rulemaking related to unlicensed use of the 5.925-7.125 GHz (6 GHz) band. I agree that protecting incumbent users from interference is an important consideration. That is why the FCC suggested allowing unlicensed devices to operate in the 6 GHz band only in locations and in frequencies where they would not cause harmful interference to incumbents.

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### Page 2—The Honorable Doug LaMalfa

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Sincerely,

Ajit V. Pai



May 23, 2019

The Honorable Grace F. Napolitano U.S. House of Representatives 1610 Longworth House Office Building Washington, D.C. 20515

### Dear Congresswoman Napolitano:

Thank you for your letter concerning the Commission's proposed rulemaking related to unlicensed use of the 5.925-7.125 GHz (6 GHz) band. I agree that protecting incumbent users from interference is an important consideration. That is why the FCC suggested allowing unlicensed devices to operate in the 6 GHz band only in locations and in frequencies where they would not cause harmful interference to incumbents.

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## Page 2—The Honorable Grace F. Napolitano

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Sincerely,

Ajit V. Pai



May 23, 2019

The Honorable Harley Rouda U.S. House of Representatives 2300 Rayburn House Office Building Washington, D.C. 20515

### Dear Congressman Rouda:

Thank you for your letter concerning the Commission's proposed rulemaking related to unlicensed use of the 5.925-7.125 GHz (6 GHz) band. I agree that protecting incumbent users from interference is an important consideration. That is why the FCC suggested allowing unlicensed devices to operate in the 6 GHz band only in locations and in frequencies where they would not cause harmful interference to incumbents.

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### Page 2—The Honorable Harley Rouda

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Sincerely,

Ajit V. Pai



May 23, 2019

The Honorable Jim Costa U.S. House of Representatives 2081 Rayburn House Office Building Washington, D.C. 20515

### Dear Congressman Costa:

Thank you for your letter concerning the Commission's proposed rulemaking related to unlicensed use of the 5.925-7.125 GHz (6 GHz) band. I agree that protecting incumbent users from interference is an important consideration. That is why the FCC suggested allowing unlicensed devices to operate in the 6 GHz band only in locations and in frequencies where they would not cause harmful interference to incumbents.

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### Page 2—The Honorable Jim Costa

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May 23, 2019

The Honorable Josh Harder U.S. House of Representatives 131 Cannon Office Building Washington, D.C. 20515

### Dear Congressman Harder:

Thank you for your letter concerning the Commission's proposed rulemaking related to unlicensed use of the 5.925-7.125 GHz (6 GHz) band. I agree that protecting incumbent users from interference is an important consideration. That is why the FCC suggested allowing unlicensed devices to operate in the 6 GHz band only in locations and in frequencies where they would not cause harmful interference to incumbents.

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### Page 2—The Honorable Josh Harder

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May 23, 2019

The Honorable Juan C. Vargas U.S. House of Representatives 2244 Rayburn House Office Building Washington, D.C. 20515

### Dear Congressman Vargas:

Thank you for your letter concerning the Commission's proposed rulemaking related to unlicensed use of the 5.925-7.125 GHz (6 GHz) band. I agree that protecting incumbent users from interference is an important consideration. That is why the FCC suggested allowing unlicensed devices to operate in the 6 GHz band only in locations and in frequencies where they would not cause harmful interference to incumbents.

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## Page 2—The Honorable Juan C. Vargas

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May 23, 2019

The Honorable Judy Chu U.S. House of Representatives 2423 Rayburn House Office Building Washington, D.C. 20515

### Dear Congresswoman Chu:

Thank you for your letter concerning the Commission's proposed rulemaking related to unlicensed use of the 5.925-7.125 GHz (6 GHz) band. I agree that protecting incumbent users from interference is an important consideration. That is why the FCC suggested allowing unlicensed devices to operate in the 6 GHz band only in locations and in frequencies where they would not cause harmful interference to incumbents.

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## Page 2—The Honorable Judy Chu

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Sincerely,

Aiit V. Pai



May 23, 2019

The Honorable Ken Calvert U.S. House of Representatives 2205 Rayburn House Office Building Washington, D.C. 20515

### Dear Congressman Calvert:

Thank you for your letter concerning the Commission's proposed rulemaking related to unlicensed use of the 5.925-7.125 GHz (6 GHz) band. I agree that protecting incumbent users from interference is an important consideration. That is why the FCC suggested allowing unlicensed devices to operate in the 6 GHz band only in locations and in frequencies where they would not cause harmful interference to incumbents.

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### Page 2—The Honorable Ken Calvert

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May 23, 2019

The Honorable Nanette Barragan U.S. House of Representatives 1030 Longworth House Office Building Washington, D.C. 20515

### Dear Congresswoman Barragan:

Thank you for your letter concerning the Commission's proposed rulemaking related to unlicensed use of the 5.925-7.125 GHz (6 GHz) band. I agree that protecting incumbent users from interference is an important consideration. That is why the FCC suggested allowing unlicensed devices to operate in the 6 GHz band only in locations and in frequencies where they would not cause harmful interference to incumbents.

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### Page 2—The Honorable Nanette Barragan

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Sincerely,

Aiit V. Pai



May 23, 2019

The Honorable Raul Ruiz
U.S. House of Representatives
2342 Rayburn House Office Building
Washington, D.C. 20515

#### Dear Congressman Ruiz:

Thank you for your letter concerning the Commission's proposed rulemaking related to unlicensed use of the 5.925-7.125 GHz (6 GHz) band. I agree that protecting incumbent users from interference is an important consideration. That is why the FCC suggested allowing unlicensed devices to operate in the 6 GHz band only in locations and in frequencies where they would not cause harmful interference to incumbents.

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### Page 2—The Honorable Raul Ruiz

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May 23, 2019

The Honorable TJ Cox U.S. House of Representatives 1728 Longworth House Office Building Washington, D.C. 20515

#### Dear Congressman Cox:

Thank you for your letter concerning the Commission's proposed rulemaking related to unlicensed use of the 5.925-7.125 GHz (6 GHz) band. I agree that protecting incumbent users from interference is an important consideration. That is why the FCC suggested allowing unlicensed devices to operate in the 6 GHz band only in locations and in frequencies where they would not cause harmful interference to incumbents.

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## Page 2—The Honorable TJ Cox

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